

WHAT IS THE DOCUMENT'S TARGET AUDIENCE?

DESIGNERS

- Drawing a general overview of a design process that should help avoid costly mistakes.
- Educating those uninitiated who are called upon to assume design of turf projects.

BUILDERS

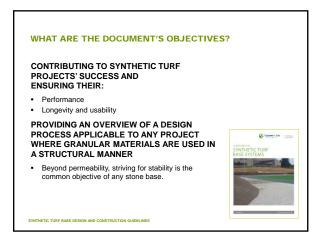
 Helping inexperienced builders develop a working knowledge of this quite unique endeavor.

OWNERS AND PROMOTERS

SYNTHETIC TURF BASE DESIGN AND CONSTRUCTION GUIDELINES

 Providing owners with some basic knowledge to help them monitor the work of those they entrust with their project.





WE WILL BE EXPLORING THREE (3) MAIN CHAPTERS

- 1. BACKGROUND
- 2. TERMINOLOGY
- 3. FUNCTIONS AND COMPONENTS OF A STONE BASE SYSTEM
- 4. DESIGNING A SYNTHETIC TURF BASE AND DRAINAGE SYSTEM
- 5. CONSTRUCTION AND INSTALLATION

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FUNCTIONS AND COMPONENTS OF A STONE BASE SYSTEM

3.1 FUNCTIONS OF A TYPICAL STONE BASE SYSTEM

"The base on which the synthetic turf is installed must provide a structurally sound foundation for the turf surface, as well as a medium for drainage of the surface."

3.1.1. Structural Stability

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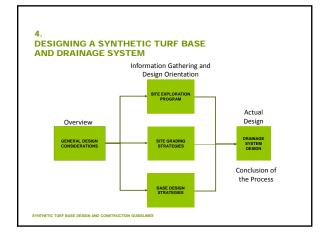
3.1.2. Drainage

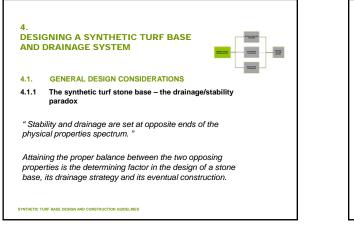
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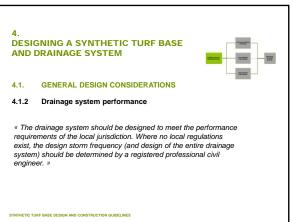
3.1.3. Storm Water Management and Flow Control

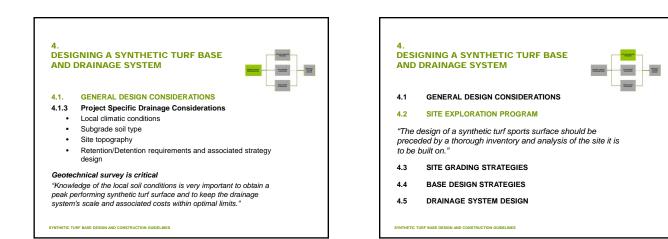


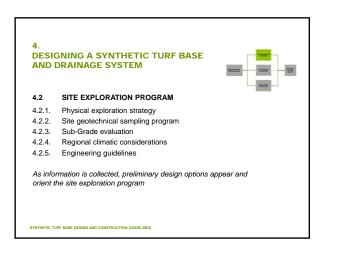
SUPERATIONS AND COMPONENTS OF A STONE BASE SYSTEM COMPONENTS OF A TYPICAL STONE BASE SYSTEM Native sub-grade soil 2.2. Base stone and finish stone 3.2.3 Stone/Soil Interface 3.2.4. Drainage Pipes 3.2.5. Peripheral Drainage Elements 3.2.6. Drainage and Shock Attenuation Pads



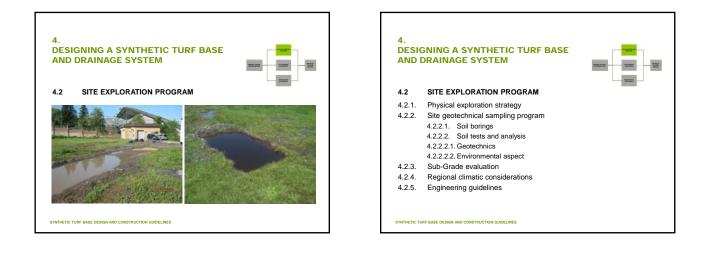


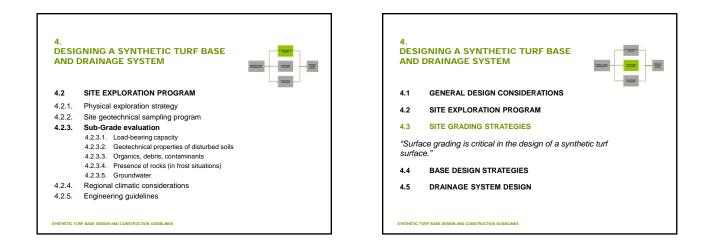


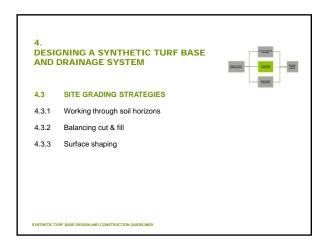


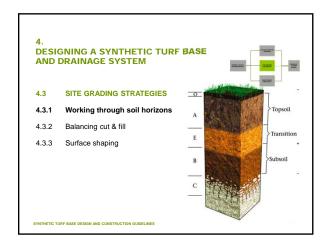


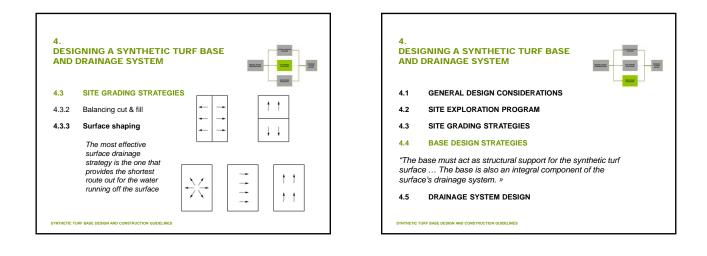
DESIGNING A SYNTHETIC TURF BASE AND DRAINAGE SYSTEM	
4.2	SITE EXPLORATION PROGRAM
4.2.1.	Physical exploration strategy 4.2.1.1. Site's human and environmental history 4.2.1.2. Study of existing site conditions 4.2.1.3. Identify projected work types – Preliminary design 4.2.1.4. Site hydrology
4.2.2.	Site geotechnical sampling program
4.2.3.	Sub-Grade evaluation
4.2.4.	Regional climatic considerations
4.2.5.	Engineering guidelines





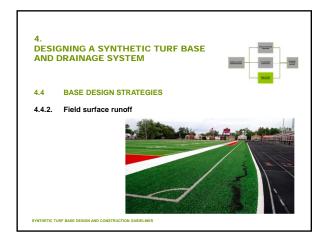


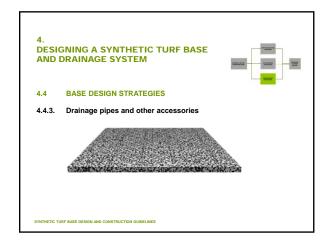


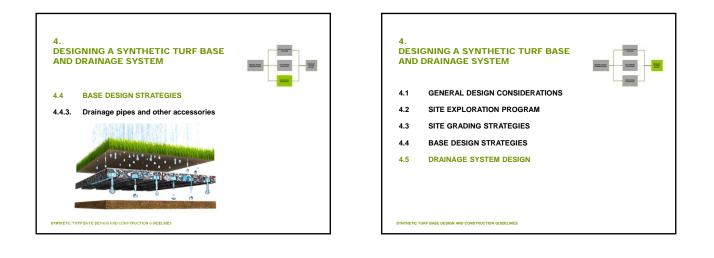


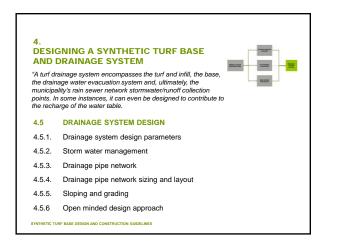


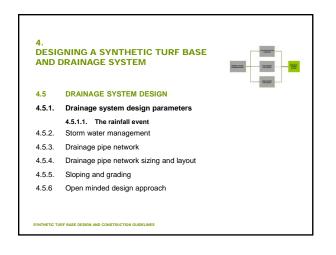


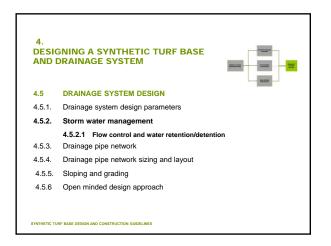


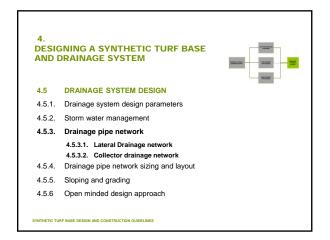


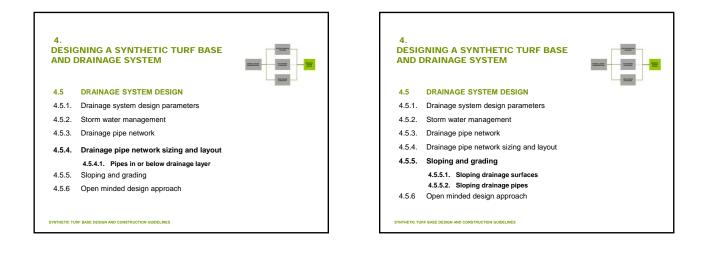




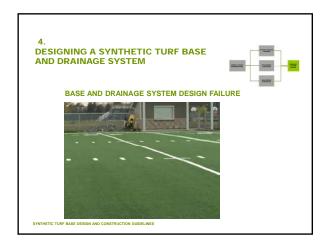


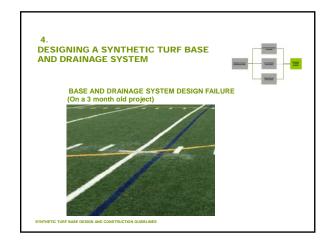












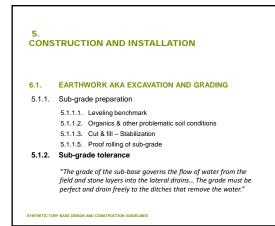
5. CONSTRUCTION AND INSTALLATION

- 5.1. EARTHWORK AKA EXCAVATION AND GRADING
- 5.2. DRAINAGE SYSTEM

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5.3. STONE BASE

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- 5.2. DRAINAGE SYSTEM
- 5.2.1. Drainage trench excavation 5.2.1.1. Bottom finish 5.2.1.2. Trench width and depth related to pipe sizing 5.2.2. Drain system
- SYNTHETIC TURF BASE DESIGN AND CONSTRUCTION GUIDELINES

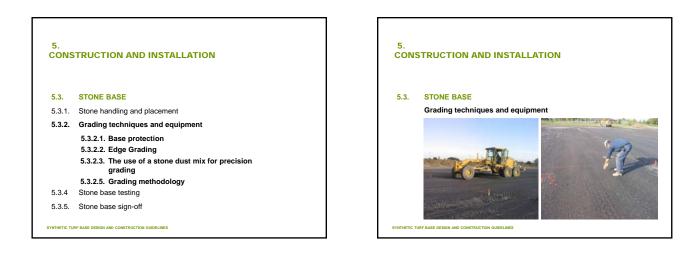
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CONSTRUCTION AND INSTALLATION

- 5.3. STONE BASE
- 5.3.1. Stone handling and placement
- 5.3.2. Grading techniques and equipment
- 5.3.3. Grade tolerances and verification
- 5.3.4 Stone base testing
- 5.3.5. Stone base sign-off

5. 5. CONSTRUCTION AND INSTALLATION 5. 5.1 Stone handling and placement 5.1.1 Stone fragmentation and segregation due to improper handling and placement 5.3.1.2 Compaction and over compaction 5.3.2 Grading techniques and equipment 5.3.3 Grade tolerances and verification 5.3.4 Stone base testing 5.3.5 Stone base sign-off







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